			the
	Application No.	Applicant(s)	
Notice of Allowability	10/760,400	KIM, SO-YOUNG	
	Examiner	Art Unit	
	Jean B Jeanglaude	2819	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communical (IGHTS). This application is subje	application. If not included tion will be mailed in due co	d course. THIS
1. This communication is responsive to <u>1-21-04</u> .			
2. ⊠ The allowed claim(s) is/are <u>1-19</u> .			
3. $igotimes$ The drawings filed on 21 January 2004 are accepted by th	ne Examiner.		
4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subminsFORMAL PATENT APPLICATION (PTO-152) which give (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to the deponant of the de	e been received. e been received in Application Not cuments have been received in the of this communication to file a replication. of this communication to file a replication. nitted. Note the attached EXAMIN es reason(s) why the oath or decorder as the submitted. son's Patent Drawing Review (Pins Amendment / Comment or in the last(c)) should be written on the drawing to 37 CFR 1.1 esit of BIOLOGICAL MATERIA	his national stage application of the keylongs in the front (not the keylongs in the submitted. Note that the submitted is the submitted of the submitted.	uirements OTICE OF
Attachment(s) 1. X Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	6. ☐ Interview Summ Paper No./Mail	Date	·152)
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. ⊠ Examiner's State 9. □ Other	ement of Reasons for Allow	rance
oi biological material	9. [] Other	Jean Bruner Je Jean Bruner Jeangla Primary Examiner	'anblaudi
	O	 Jean Bruner Jeängla Primary Examiner 	uae

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Reasons For Allowance

Claims 1 – 19 are allowable.

The following is an examiner's statement of reasons for allowance: in combination with other limitations of the claims the prior arts made of record fail to suggest a coding data size training apparatus and method that comprise a neural network training unit which inputs the training data to an input layer of a neural network, and inputs the size of the training coding data to an output layer of the neural network so that the neural network is trained. Also, in combination with other limitations of the claims the prior arts made of record fail to suggest a coding data size selection apparatus and method that comprise a coding data estimation size receiving unit which inputs predetermined data to a neural network whose training is finished, and receives an estimation size of coding data corresponding to the predetermined data from the neural network. Moreover, in combination with other limitations of the claims the prior arts made of record fail to suggest a parallel variable length coding bitstream length training apparatus and method comprising a parallel neural network training unit which inputs the training quantization DCT coefficient block to input layers of a predetermined number of neural networks arranged in parallel, and inputs the length of the training bitstream to output layers of the predetermined number of neural networks so that the predetermined number of neural networks are trained. Furthermore, in combination with other limitations of the claims the prior arts made of record fail to suggest a video data compression method that inputs the generated quantization DCT coefficient block to a neural network whose training is finished, receiving an estimation length of a bitstream corresponding to the quantization DCT coefficient block from the neural network, and receiving a user selection about the received estimation length; and if the estimation length is selected by the user, generating a bitstream by variable length coding a quantization DCT coefficient block corresponding to the selected estimation length.

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 4. Spirkovska et al. (US Patent Number 5,333,210) discloses a method and system for pattern analysis using a coarse-coded neural network.
- 5. Austvold et al. (US patent Number 5,546,505) discloses a program product for facilitating use of a neural network.
- 6. Nussbaum (US Patent Number 5,749,066) discloses a method and apparatus for developing a neural network for phoneme recognition.
- 7. Moses et al. (US patent Number 6,035,177) discloses a simultaneous transmission of ancillary and audio signals by means of perceptual coding.
- 8. Suarez et al. (US patent Number 6,128,346) discloses a method and apparatus for quantizing a signal in a digital system.

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Vetro et al. (US Patent Number 6,493,386) discloses an object based bitstream 9.

transcoder.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jean B Jeanglaude whose telephone number is 571-

272-1804. The examiner can normally be reached on Monday - Friday 7:30 A. M. - 5:00

P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Tokar can be reached on 571-272-1812. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

zuner glandlande Jean Bruner Jeanglaude

Primary Examiner

December 14, 2004